

Science Policy

Governor Committee Responsible:	Curriculum and Standards
Status:	Statutory / Non-statutory
Review Cycle:	Every 4 years
Staff Lead:	M Bailey
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Review date:	February 2028

OUR VISION

Every child at Fladbury will know they are loved by God, have a happy heart and be part of a flourishing, well-led school. When they leave Fladbury, they will be well-prepared to meet challenges, confident in their abilities and look forward to their bright future with an open mind.

John 10:10, "I came that you may have life and have it to the full."

“Science aims to stimulate our natural curiosity in finding out why things happen in the way we do. It teaches methods of enquiry and investigation to stimulate creative thought.” National Science

Intent:

At Fladbury, our science curriculum inspires our children to be curious about the world, and how it works. Through enthusiastic and carefully planned teaching children will develop a sense of excitement and awe and wonder of natural phenomena. We aim to ensure that all pupils develop scientific knowledge and conceptual understanding through the disciplines of biology, physics and chemistry. Through participating in investigations and practical work, they will develop an open mind, realising science is all around us. Children will develop an understanding of how science has changed our lives and impacts upon our bright futures.

Implementation:

- At Fladbury, Teachers create a positive attitude to science learning within their classrooms and reinforce an expectation that all pupils are capable of achieving high standards in science. Our whole school approach to the teaching and learning of science involves the following;
- Science is taught in planned and arranged topic blocks by the class teacher where appropriate. This is a strategy to enable the achievement of a greater depth of knowledge and being able to link their learning to other subject areas.
- We build upon the knowledge and skill development of the previous years to ensure progression. We revisit previous science learning in the classroom to support the knowledge acquired in prior lessons.
- Science is taught weekly in 1 hour blocks in KS1 and LKS2. Science is taught through continuous provision in EYFS. The study of science is based on the 2014 National Curriculum. All units of science from the National Curriculum are mapped out in Fladbury's long-term planning on a two-yearly cycle.
- Working Scientifically skills are embedded into lessons to ensure these skills are being developed throughout the children's school career and new vocabulary and challenging concepts are introduced through direct teaching. We use an enquiry-based approach, which starts with a question to then investigate and draw conclusions from our tests and results. We present our results in a variety of ways such as tables, graphs, observational sketches depending on the most appropriate way to record.
- Regular events, such as British Science Week, STEM challenges, Outdoor Learning. Forest School and trips to Science Museums allow us to celebrate Science, foster a curiosity of the subject and explore other science concepts to get children thinking scientifically. These opportunities provide practical, real-life aspects to their science learning.

Impact:

When the children leave Fladbury C of E First School, they will have had their curiosity fostered throughout their learning journey here. They will have been allowed to explore and ask questions in science. They will be given a sense of hope for their bright future and the impact that they could have upon it within their lifetimes. They will know Science is continually developing and children will begin to understand that people are still discovering new ideas. This will equip the children with wisdom to use what they know to influence their decisions moving forwards. Children will have gained knowledge in the different disciplines and the skills to work scientifically, enabling progress across over time in all key stages. Children will be confident in their abilities and well-prepared to meet challenges.

EYFS

In EYFS, children are exposed to carefully considered and well-planned continuous provision in Science. They cover the 'Development Matters' curriculum through incidental learning and purposeful opportunities throughout the day. Children explore the natural world around them through weekly Forest School sessions.

Health and Safety

When working with science equipment and materials during practical activities, teachers should ensure that children understand the hazards and learn how to use the equipment safely.

Equal Opportunities

At Fladbury, consideration is always given in respect of cultural differences and experiences. All children with Special Educational Needs are provided with challenging experiences in a flexible manner suited to their individual requirements.

Recorded Work

Scientific work is recorded in a variety of ways appropriate to the age of the children and their individual needs in each key stage. This can include teacher observations, photographs, diagrams, tables and written accounts. In KS1 and KS2, Science recording is achieved in individual science books. In EYFS, science is recorded in floor books and observations of the children.

Assessment

Pupil work will be assessed by direct observation when completing science activities and in discussion with the teacher, as well as on the finished work. Children are assessed at the end of each unit of work. Children's achievements are shared with parents at Parent Consultations.

Resources

We keep a wide range of science resources in a central store area in the school. All staff have access to these resources and it is the responsibility of the Class Teacher, in conjunction with the Subject Lead, to ensure they have what they need for the lesson.

Monitoring

Monitoring of the subject will include: planning scrutiny, pupil voice, learning walks, staff questionnaire and work scrutiny. Monitoring will be completed by the Subject Leader, Link Governor and SLT.